

**ABSTRACT**

A sound generator apparatus that is configured to improve sound quality for a sound generator is disclosed. The sound generator apparatus includes a processing device and a memory coupled to the processing device. The a sound generator apparatus also includes a sound generator coupled to the processing device. Further, the sound generator apparatus includes a program residing in memory and configured to be run on the processing device. The program configured to vary the output amplitude of the sound generator depending on the sound generator frequency.

10 Further, a method of improving sound quality for a sound generator is disclosed. The method includes providing a signal indicative of a sound frequency to be generated. The method also includes calculating volume adjustment information according to the sound frequency to be generated. Further, the method includes providing the current volume setting  
15 and adjusting the volume based on the volume adjustment information.